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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/847,188	05/01/2001	Kim Fung Lee	75622.P0035	5100	
22503	7590 11/13/2003	EXAMINER			
DAVIS & ASSOCIATES P.O. BOX 1093 DRIPPING SPRINGS, TX 78620			HA, DAC V		
			ART UNIT	PAPER NUMBER	
•			2634	P ··	
			DATE MAILED: 11/13/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.		Applicant(s)			
1			09/847,188 LEE, KIM FUNG		LEE, KIM FUNG			
Office Action Summary		-	Examiner		Art Unit			
			Dac V. Ha		2634			
	The MAILING DATE of this commu	nication appe	ears on the cover sheet	t with the co	orrespondence address			
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THE - Exte after - If the - If NO - Failu - Any earne	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMUN nsions of time may be available under the provision SIX (6) MONTHS from the mailing date of this comperiod for reply specified above is less than thirty or period for reply is specified above, the maximum or to reply within the set or extended period for repreply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136 nmunication. (30) days, a reply statutory period will, by statute, or	S(a). In no event, however, may within the statutory minimum of Il apply and will expire SIX (6) No cause the application to become	y a reply be time thirty (30) days MONTHS from to BANNDONED	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status								
·	Responsive to communication(s) fi							
		<i>'</i> —	ction is non-final.					
3)∐	Since this application is in condition closed in accordance with the practice.							
Dispositi	on of Claims							
4)⊠	Claim(s) <u>1-13</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·	Claim(s) is/are allowed.							
	Claim(s) <u>1-6 and 10-13</u> is/are rejected.							
·	Claim(s) <u>7-9</u> is/are objected to.							
	Claim(s) are subject to restr	iction and/or	election requirement.					
_	on Papers							
	The specification is objected to by the							
10)	The drawing(s) filed on is/are		•	-				
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected							
	inder 35 U.S.C. §§ 119 and 120	to by the LAS	irmiler. Note the attack	ieu Onice i	ACTION OF IONITE TO-152.			
		n for foreign	mainaithe condon 25 H O (O C 440/-\	. (-1) (0)			
a)[Acknowledgment is made of a clair All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation see the attached detailed Office actions.	y documents y documents s of the priorit onal Bureau	have been received. have been received in y documents have be (PCT Rule 17.2(a)).	n Applicatio	on No d in this National Stage			
13)∭ A si 3'	cknowledgment is made of a claim nce a specific reference was included CFR 1.78. The translation of the foreign la	for domestic ed in the first	priority under 35 U.S. sentence of the speci	C. § 119(e fication or) (to a provisional application) in an Application Data Sheet.			
14) <u> </u>	cknowledgment is made of a claim ference was included in the first set	for domestic ntence of the	priority under 35 U.S. specification or in an	C. §§ 120 a Application	and/or 121 since a specific n Data Sheet. 37 CFR 1.78.			
Attachment	(c)							
	e of References Cited (PTO-892)		4) Intende	w Summary (PTO-413) Paper No(s)			
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (nation Disclosure Statement(s) (PTO-1449)		5) Notice of		stent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 1-3, 5 are rejected under 35 U.S.C. 102(e) as being anticipated by Gambuzza (US 6,226,331).

Regarding claim 1, Gambuzza teaches the claimed subject matter as followed.

"a hybrid network having a hybrid input, a receive input, and a hybrid output, wherein the receive input is capacitively coupled to a subscriber line carrying upstream and downstream data signal" (Figure 4, elements 440A and 440B), wherein the paths through R7 and R8 teach "a hybrid input"; the paths through R5 and R6 teach "receive input"; and outputs from 440A and 440B teach "a hybrid output";

"a driver providing the upstream data signal to the subscriber line and the hybrid input, wherein the driver is capacitively coupled to the hybrid input, wherein the hybrid output provides the extracted downstream data signal from the subscriber line" (Figure 4, elements 430B, 430C).

Regarding claim 2, Gambuzza further teaches the claimed subject matter "wherein the hybrid network resides on an integrated circuit die" in Col. 3, lines 46-48.

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Regarding claim 3, Gambuzza further teaches the claimed subject matter "wherein the driver resides on the same integrated circuit die" in Col. 3, lines 46-48.

Regarding claim 5, Gambuzza further teaches the claimed subject matter "wherein the upstream and downstream data signals are multitone modulated data signals" Col. 3, line 20.

3. Claims 6, 10 are rejected under 35 U.S.C. 102(e) as being anticipated by Hjartarson et al. (US 6,295,343) (hereinafter Hjartarson).

Regarding claim 6, Hjartarson teaches the claimed subject matter "a hybrid network coupled to receive an upstream data signal and a downstream data signal communicated on a subscriber line, the hybrid network extracting the downstream data signal, wherein the hybrid network order is less than or equal to 2" in Figures 6, 7, all elements except elements 407, 407; Col. 7, lines 25-28.

Regarding claim 10, Hjartarson further teaches the claimed subject matter "the hybrid network is tuned to behave substantially as a first order network" in Col. 7, lines 25-28.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gambuzza.

Regarding claim 4, the claimed subject matter "wherein the hybrid network is a complementary metal oxide semiconductor integrated circuit" would have been obvious to one skilled in the art at the time of the invention since CMOS is the technique of choice for IC.

6. Claims 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hjartarson in view of Gambuzza.

Regarding claim 11, Hjartarson teaches all the claimed subject matter in claim 11, except for the claimed subject matter "wherein the hybrid network resides on an integrated circuit die". However, this claimed subject matter would have been obvious to one skilled in the art, i.e. as taught by Gambuzza in Col. 3, lines 46-48.

Regarding claim 12, the claimed subject matter "wherein the hybrid network is a complementary metal oxide semiconductor integrated circuit" would have been obvious to one skilled in the art at the time of the invention since CMOS is the technique of choice for IC.

Regarding claim 13, Gambuzza further teaches the claimed subject matter "wherein the upstream and downstream data signals are multitone modulated data signals" Col. 3, line 20.

Allowable Subject Matter

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7. **Claims 7-9** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Tamura et al. (US 6,498,511) disclose a Receive, Hybrid Circuit, Driver Circuit, And Signal Transmission System For Bidirectional Signal Transmission For Carrying Out Such Signal Transmission In Both Directions Simultaneously.

Williamson et al. (US 6,477,249) disclose a Communication Signal Splitter And Filter.

Strait (US 6,266,367) discloses a Combined Echo Canceller And Time Domain Equalizer.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 703-306-5536. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 305-5500.

Dac V. Ha Examiner Art Unit 2634